



BN
5-9-01

PEACH TREE NAMED 'ISLAND PRINCE'

Prunus persica

#4
Sub. Spec
5/7/01

BACKGROUND OF THE NEW VARIETY

The present invention refers to a new variety of peach tree which will hereinafter be denominated as the 'Island Prince' peach tree which produces clingstone fruit which are mature for commercial harvesting and shipment approximately May 8-10 in a normal growing year in the San Joaquin Valley of Central California as an early fresh market peach with a good red blush coloration.

In the development of new commercial varieties of fruit specific characteristics places a premium on those varieties, which are early or late maturing, in the growing season. However, many such varieties have small size, lack of flavor, or coloration. In some instances there are other undesirable characteristics that decrease the commercial success. In order for a fruit to be a commercial success it must possess those characteristics of good size, good color, and good flavor. At the same time the date of maturity must be separate or different than other similar fruit. This new invention meets all of the aforementioned criteria and therefore is of commercial appeal to the consumer.

ORIGIN AND ASEXUAL REPRODUCTION OF THE NEW VARIETY

The present variety of peach tree was discovered by the inventor in his 4-acre orchard of 'Island King' peach trees (Plant Patent 9199) which is located near Kingsburg, California. The inventor discovered it as a sport of the 'Island King' peach tree in 1997. The new variety was first asexually reproduced by the inventor in 1997 by bud grafting two trees on Nemaguard Rootstock in the orchard of origin. The asexually reproduced trees first bore fruit of

the new variety in May 1998. The inventor carefully compared the asexually reproduced trees with the parent sport, including the fruit thereof and the parent as well as the progeny is in all respects identical.

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SUMMARY OF THE NEW VARIETY

5 28M 5-9-01 P The 'Island Prince' peach is characterized by producing an extra large clingstone fruit which has good red blush coloration and is ripe for commercial harvesting and shipment approximately May 8 to May 10 in the San Joaquin Valley of Central California. The new variety is most similar to 'Island King' peach tree (U.S. Plant Patent 9199) from which it is a sport but from which is distinguishable in that it ripens ten to fourteen days later than the fruit of 'Island King' peach tree and in that the fruit is about one-third again larger in size than that of the 'Island King' peach tree. The fruit of this new variety possesses a very good flavor as well as aroma which is greatly acceptable for an early ripening variety. ✓

DRCL
P **BRIEF DESCRIPTION OF THE DRAWING**

15 The accompanying drawing is a color photograph showing fruit and foliage of the new variety. The view on the left side of the photograph displays a fruit cut in half showing the pit and the flesh on the upper half and the pit well and the flesh on the bottom half. In the center is the fruit showing the distal end and the suture, while on the upper right is a fruit showing a side view with the cheek surface. The fruit on the bottom right shows the stem end of the fruit. The top of the photograph shows the foliage typical of this variety of peach tree.

20 P DECL **DETAILED DESCRIPTION**

Referring more specifically to the pomological description of this new and distinct variety of peach tree, the following has been observed under the ecological conditions prevailing

in the orchard of origin which is located near Kingsburg, California in the San Joaquin Valley of Central California. All major color code designations are by reference to the Dictionary of Color by Maerz & Paul, First Edition 1930. Common color names are also occasionally employed.

TREE

P05 Size: Δ Tree is similar in size and growth habit to 'Island King' United States Plant Patent No. 9199 - medium size for peaches.

P0 Vigor: Δ Moderate at 4th year of growth.

P0 Figure (form): Upright and spreading with open vase system of training.

10 Productivity is very good for tree in fourth year of growth. Regularity of bearing appears to be regular (i.e., every year, not in alternate years).

P0 Trunk Size: P2 Medium (diameter 9", 10" above soil level) - moderately rough

P2 Color - Grey 31 (15-C-6)

P2 Lenticels: Oval form, medium, and from 4-7 mm (.16-.28 inch) in length

15 Color - Light Brown (7-A-10)

Number - many

P0 Branches: P2 Size - Medium

P2 Surface texture - slightly rough

20 a. Mature - Slightly Rough

b. Immature - Smooth

Color Code (one year or older), Chestnut Brownstone (7-E-10)

Color Code (immature), Calliste Green (19-L-6)

PS P Three to four scaffold with lateral branches, at this stage of growth, being develop fruit wood and allow maximum sunlight for fruit colors. Diameter of scaffold branches taken at about two feet above soil level is five to six inches in circumference.

LEAVES

- P0 5 Size: Medium to large
Length: 155mm - 165mm (6.10-6.50 inch)
Width: 38mm - 41mm (1.50-1.61 inch)
Shape: Lanceolate, leaf tip acuminate
Texture: Smooth
10 Color Code:
P2 Upwardly disposed surface (upper side) - Mt. Vernon Green (23-J-8)
L Downwardly disposed surface (underside) - Near Mignard Green (21-I-6)
P0 Marginal form: Crenate
P0 Leaf Vein:
15 P2 Color Code: Piquant Green (20-K-6)
L Thickness: 1/2 mm (.06 inch)
P0 Glandular characteristics: reniform - alternate
P2 Color: Crysolite Green (19-K-3)
L Size: 2mm
20 L Number: two
P0 Petiole:
P2 Size: Medium

P2 Length - 10-11 mm (.37-.43 inch)
Diameter - 2mm (.08 inch)
Color Code - Piquant Green (20-K-6)

FLOWERS

PO Flower buds: Hardy under typical central San Joaquin Valley climate condition.

P2 Size - dormant buds of average size. Length - 10.3 mm (.406 inch).
Form - conic and slightly appressed to the bearing wood.

PO Bud scales:

P2 Color - Rosetone (6-C-9) and very pubescent on surface.

PO Generally Showy type.

PO Date of Bloom: 5-10% as of Feb 24, 2000, 100% bloom on March 8, 2000, comparable to date of parent 'Island King', pp #9,199.

PO Size: generally medium to large.

PO Diameter: when fully expanded - 32mm (1.26 inch) to 40mm (1.51 inch).

PO Bloom quality: abundant.

PO No fragrance.

PO Petals:

P2 Size - medium to large
Length - 15 mm (.59 inch) to 18 mm (.71 inch).
Width - 12mm (.47 inch) to 15 mm (.59 inch).

P2 Form - broadly ovate
Number - five
Color - from Light Pink (1-C-3) to (1-E-2) with older petals.

P2 { Petal claws - broadly truncate (1)
 Width - 1 mm (.254 inch) (1)
 Length - 1.5 mm (.059 inch) (1)

P2 { Petal margins - moderately undulated with somewhat rounded margins.

5 P2 { Flower pedicel - very short 2-3 mm (.079 inch - .12 inch.) (1)
 Color - Calliste Green (19-L-6) (1)
 Surface - glabrous (1)
 Diameter - 1-2 mm (1)

P0 Sepals:

10 P2 { Surface - pubescent (1)
 Size - medium to large (1)
 Form - broadly ovate (1)
 Color - Maroon (7-H-4) (1)
 Number - five (1)

P0 Calyx: ΔC

Color Green (18-K-7) at base and Maroon (7-H-4) near base of sepals.

P0 Anthers:

P2 { Size - average (1)
 Color - 50 - red near dianthe (1)
 On dorsal side and edges + 10F4 (1)
 (Pale chamois) on ventral side (1)

P0 Stamen: 10-12 mm (.039 - .47 inch) (1)

P2 Number - 18-24
P0 Filament: Color very light pink (1-D-1)

P0 Pistil:

5 P2 Length - average 18 mm
Number - one
Color - Reed Green (19-D-2)
Surface - Pubescent

FRUIT

P0 Date of Maturity: May 8-10 in a normal year

10 P0 Size:

P2 Diameter Axial Plane - 73-83mm (2.87-3.27 inch with 64% of the larger size)
Transverse in Suture Plane - 62-67mm (2.44-2.67 inches)
Transverse at Rt. Angle to Suture Plane - 71-77mm (2.80-3.03 inches)

P0 Form:

15 Uniform

P2 Symmetrical or Asymmetrical: Shape of fruit is slightly asymmetrical

P0 Suture: Shallow but with distinct Pinard Yellow (9-J-2) coloration from base to apex

Ventral Surface: Uneven

Stem Cavity:

20 P2 Width - 14-15mm (.55-.59 inch)
Depth - 9-10mm (.35-.39 inch)
Length - 16-18mm (.63-.71 inch)

P2 Shape - Oval
PO Stem - Short
P2 Diameter - 4-8mm (1/16 - 1/2 inch)
PO Apex - Slightly Rounded

5 Pistil Point - Oblique
Skin - Thickness normal for peach, slightly pubescent
Texture - Firm
Tendency - None observed.
Color Code -

10 P2 Blush Color - Peony, Burmese Ruby (7-H-6)
Ground Color - varies over 50% at axis, Sunset (10-C-4)
Flesh Color - Jonquil (9-J-5)
Color at Surface of Pit Cavity - Jonquil (9-J-5)
Color of Pit Well - Jonquil (9-J-5)

15 PO Juice Production - Moderate
Flavor - Very good to excellent
Aroma - Good
Texture - Firm
Fibers -

20 P2 Number - Few
Texture - Firm

PO Ripening - Even

PO Eating Quality: Very good to excellent (1)

PO Stone:

P2 Attachment - Clingstone (1)

Fibers - Numerous, Short, SI. Thick (1)

5 Size - Medium (1)

Length - 35-40mm (1.38-1.5 inch) (1)

Width - 26-28mm (1.02-1.1 inch) (1)

Diameter - 18-20mm (.71-.74 inch) (1)

PO Form: Ovate (1)

10 Apex: Sharply acute (1)

Color Code, when dry: Near Toast (38-E-8) (1)

Base: Slightly Rounded (1)

Sides: Unequal (1)

Texture: Pitted (1)

15 Ridges: On both sides of stone with ventral edge relatively narrow (1)

Tendency to split: only one in six fruit had split pits. None evident externally (1)

Use: Fresh Market (1)

Shipping and Quality: Very Good (1) PS

P Like most peach trees, the new variety has winter hardiness, and is not susceptible

20 to damage during the dormant season. The fruit and foliage of the new variety do not evidence any particular susceptibility to heat.

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P The above description of this new variety of peach tree is based on the growing conditions prevailing near Kingsburg, California in the Central San Joaquin Valley of California, variations of the usual magnitude and characteristics may occur due to change in cultural factors, including irrigation, fertilization, primary climatic changes, et al. PS

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